

# Water Resources Advisory Committee

SFWMD Headquarters, B1 Auditorium

March 3, 2016

## **Kissimmee River Restoration** *Current Construction Features*

**Lawrence Glenn**

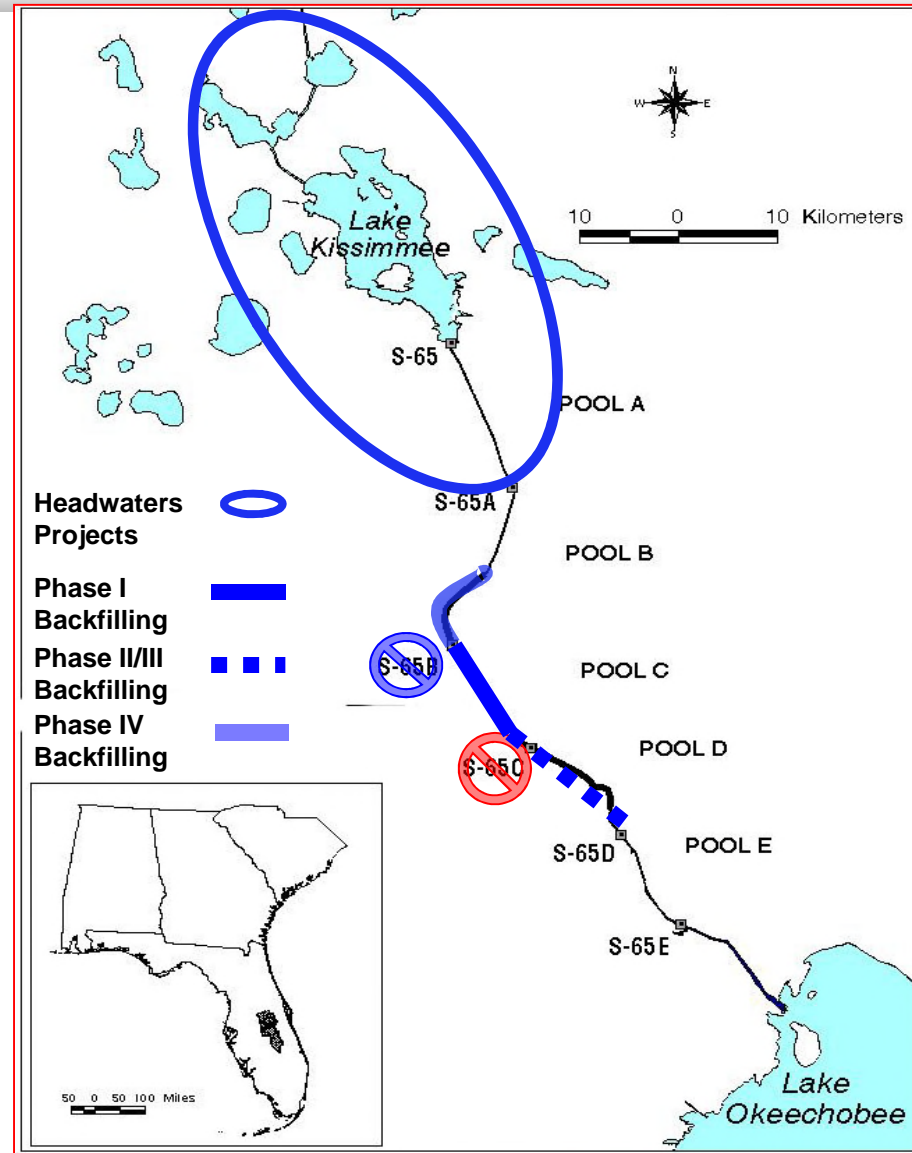
*Section Administrator, Lake and River Ecosystems*

*Applied Science Bureau*



# Kissimmee River Restoration Project

- 50/50 Cost share State/Federal
  - USACE: Engineering planning and construction
  - SFWMD: Land acquisition and restoration evaluation
- Backfill 22 miles of C-38 canal
- Reconnect 45 miles of river channel
- Remove 2 water control structures
- Mimic historic inflows – 2020
- Restoration Evaluation Program through 2025
  - Evaluate project success



# Approach for the Kissimmee River Restoration Project

**Reconnect,  
reconstruct  
physical form of  
the river**

**Modify  
headwater  
inflows to mimic  
historical  
patterns**

**Restoration of  
ecological  
integrity to  
central region  
of the  
Kissimmee  
River**



# Reconstruct the Physical Form





# Operate the System to Mimic Natural Flow and Stage Patterns



# USACE Construction Contracts

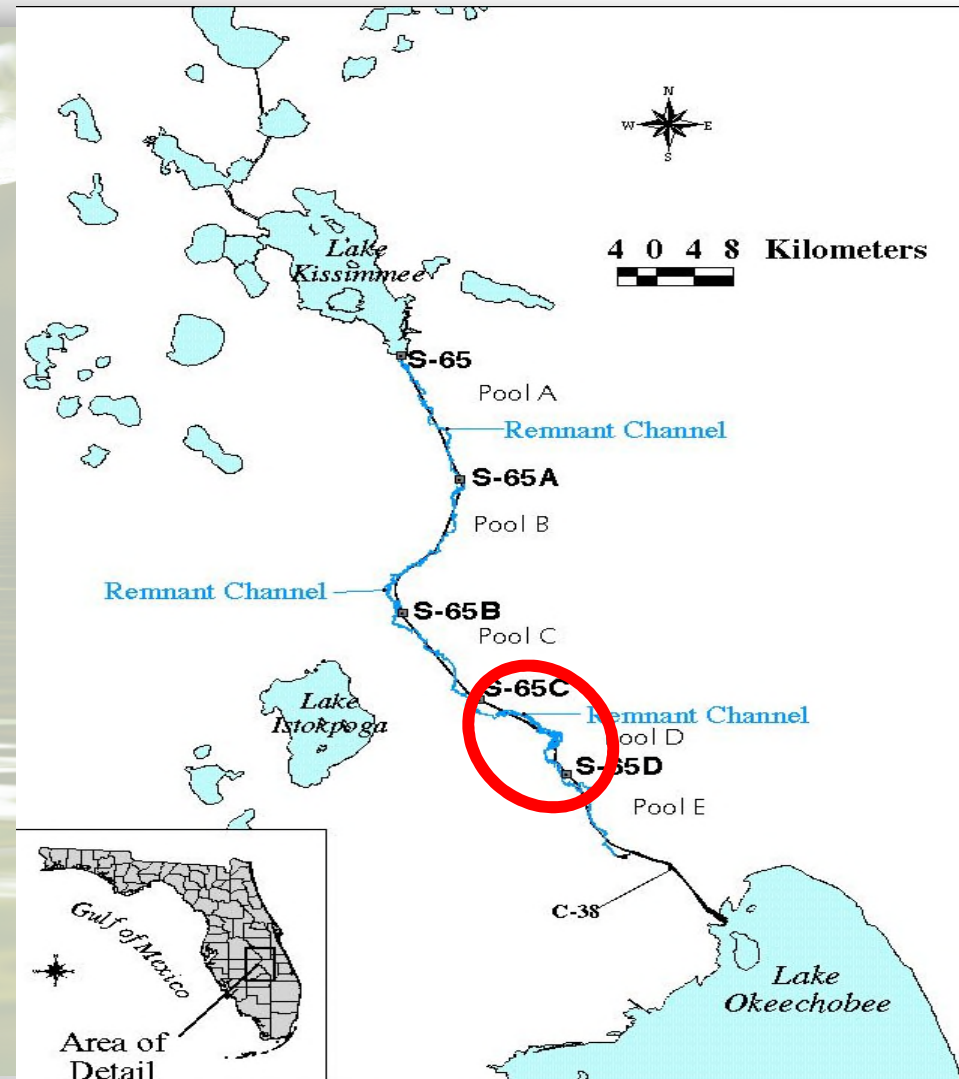
Contract Number	Project Name
1	Test Backfilling
2A	C-35 Dredging
2B	C-36 Enlargement
2B1	C-37 Enlargement
3	S-65 Enlargement
4	Local Levee Degradation
5	S-65A Tieback Levee
6A1A	C-83A/84A Spillways
6A1B	S-68A Spillway
6A2	Istokpoga Canal
6B	Basinger Grove
7	Reach 1 Backfilling
7B	Radio Tower

Contract Number	Project Name
8	Hwy 98 Causeway
9	CSX Railroad Bridge
10A	Oxbow Dredging
11	S-65D Control Structure
13A	Reach 4A Backfilling
13B	Reach 4B Backfilling
14	Pool A Spoil Mound
15	River Acres Flood Reduction
15A	River Acres Supplemental
18	Pool D Oxbows
18A	S-65E Spillway
18B	Pool D Boat Ramp



# Remaining Construction Features

Contract Number	Project Name
10	Reach 2 Backfilling
10B	MacArthur Ditch Backfilling
12	Reach 3 Backfilling
12A	S-69 Weir









# KISSIMMEE RIVER RESTORATION

MacArthur Ditch Backfill

Construction Progress

March 2016



MacArthur Ditch

July 7, 2015





Backfill material

Downstream plug

July 7, 2015





July 7, 2015





July 7, 2015





December 12, 2015





February 3, 2015





February 24, 2015



# KISSIMMEE RIVER RESTORATION

Reach III C-38 Backfill

Construction Progress

March 2016



February 3, 2016





February 17, 2016





February 17, 2016





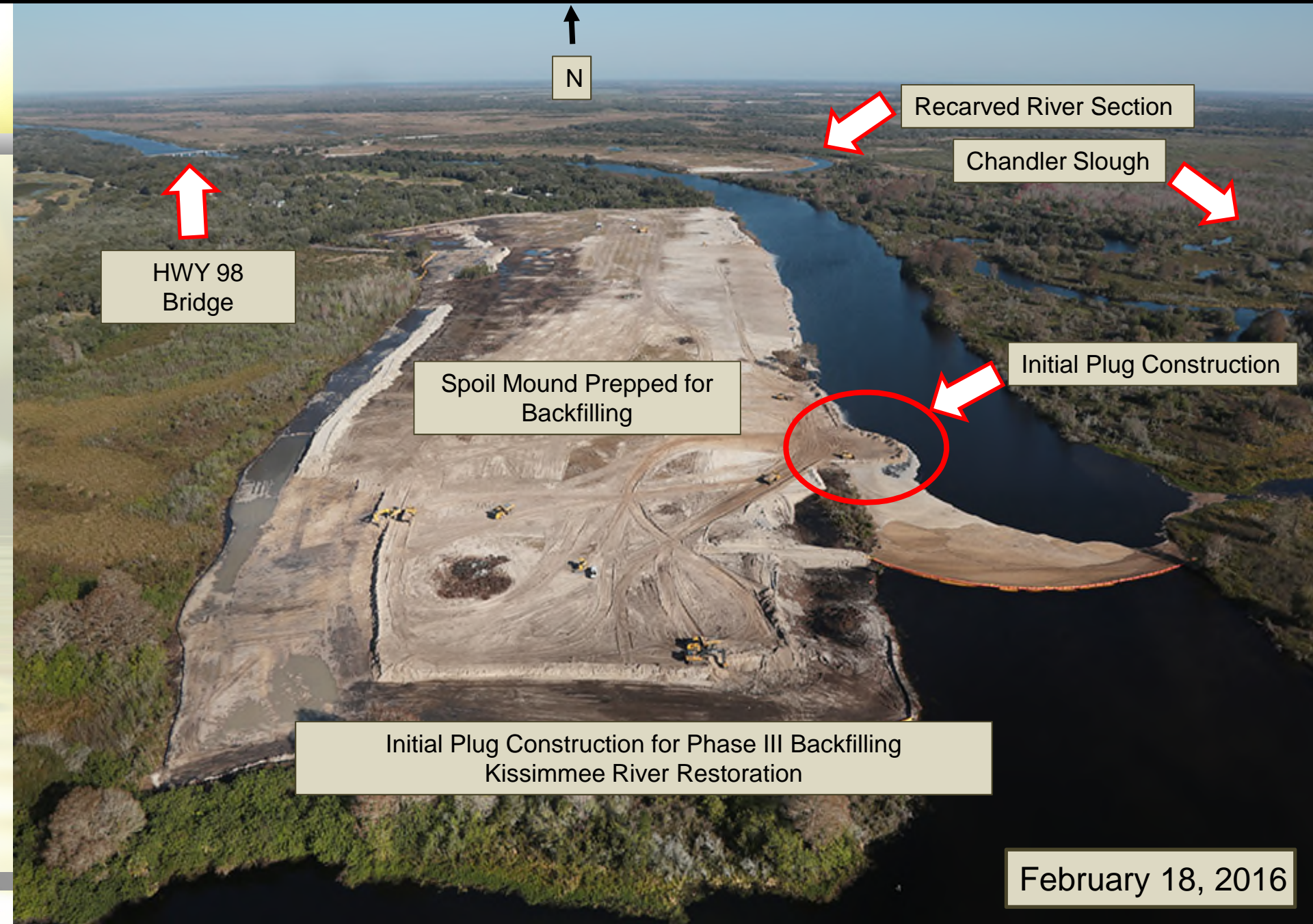
February 18, 2016





February 18, 2016





HWY 98  
Bridge



Recarved River Section

Chandler Slough



Spoil Mound Prepped for  
Backfilling



Initial Plug Construction

Initial Plug Construction for Phase III Backfilling  
Kissimmee River Restoration

February 18, 2016





THANK YOU!

February 24, 2016